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ABSTRACT OF THE DISCLOSURE

A scanning microscope having an acoustooptical component that splits out illuminating light for illumination of a sample from the output light of at least one light source, and conveys detected light proceeding from the sample to a detector, comprises, in the beam path of the output light from which the illuminating light is split out, at least one monitoring detector which is the measuring element of a control circuit. The scanning microscope is characterized in that fluctuations over time in the illuminating light power level are largely eliminated.